

We Claim:

1. A substantially homogenous conjugate composed of a
5 synthetic particle attached to the N-terminus of a
protein.
2. The conjugate of Claim 1 wherein the synthetic particle
is a monodisperse synthetic particle.
3. The conjugate of Claim 1 wherein the synthetic particle
10 is a monodisperse nanoscale particle.
4. The conjugate of Claim 1 wherein the synthetic particle
is a dendrimer.
5. The conjugate of Claim 1 wherein the synthetic particle
is a PAMAM dendrimer.
- 15 6. The conjugate of Claim 1, 2, 3 or 4 wherein the protein
is a four-helical bundle protein.
7. The conjugate of Claim 1, 2, 3 or 4 wherein the protein
is a cytokine.
8. A pharmaceutical composition of the conjugate of Claim
20 1, 2, 3, 4, 5, 6 or 7.
9. A method for site specifically attaching a synthetic
particle to the N-terminus of a protein, said method
comprising the steps of:
 - 25 a) attaching a spacer on the N-terminus of a protein;
 - b) forming a sulphydryl on a synthetic particle at the
amine; and
 - c) combining said sulphydrylized synthetic particle to
said spacer on the protein.
10. A method for site specifically attaching a synthetic
30 particle to the N-terminus of a protein, said method
comprising the steps of:
 - a) converting a ser-terminated protein to an aldehyde;
 - b) converting the amine of a synthetic particle to a
oxiamine; and

c) combining said aldehyde ser-terminated protein to said synthetic particle at said oxiamine.

11. The method of Claim 9 or 10 wherein the synthetic particle is a monodisperse synthetic particle.

5 12. The method of Claim 9 or 10 wherein the synthetic particle is a PAMAM dendrimer.

13. The method of Claim 9 or 10 wherein the synthetic particle is a highly monodisperse nanoscale particle.

14. The method of Claim 9 or 10 wherein the synthetic particle is a dendrimer.

10 15. The method of Claim 9, 10, 11, 12, 13 or 14 wherein the protein is a four-helical bundle protein.

16. The method of Claim 9, 10, 11, 12, 13 or 14 wherein the protein is a cytokine.

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